

Amendments to the Specification:

Please amend the title of the invention (as referenced on the Transmittal, Declaration and Information Disclosure Statement filed in connection with this application) to be consistent with that on the verified English translation of the application, to read as follows:

SYSTEM AND METHOD FOR CLEANING CONTAMINATED MATTER
COMPRISING DIOXINS AND PREPARATION FOR DECOMPOSING
DIOXINS

Page 38, please amend the paragraph beginning on line 23 as follows:

For example, an incinerator, which is a source of the contaminated matter comprising dioxins, is washed using a high pressure water washing method or a wet sandblast method inside the seclusion building 102 at the dismantling or washing site 100. Alternatively, the washed incinerator is dismantled using a wire sawing method, for example, to thereby discharge the wastewater including the contaminated matter comprising dioxins. The wastewater from the dismantling or washing site 100 is collected at the wastewater pit ~~104~~ 103 and fed to the vehicle or equipment washing site 101.

Page 39, please amend the paragraph beginning on line 7 as follows:

Conveying machines such as a belt conveyor or operation vehicles such as a bulldozer used at the dismantling or washing site 100 are washed with water inside the seclusion building 106 at the vehicle or equipment washing site 101, to thereby discharge the wastewater including the contaminated matter comprising dioxins. The wastewater from the vehicle or equipment washing site 101 combines with the wastewater from the dismantling or washing site 100 to be collected at the wastewater pit ~~108~~ 107 and fed to the contaminated matter cleaning device 1.

Page 42, please amend the paragraph beginning on line 4 as follows:

The solid matter in the mixture is filtered by the submerged membrane 7, but on the other hand, the blower 6 supplies air from directly below the submerged membrane 7. Thus, in the filtration of the mixture using the submerged membrane 7, clogging of the submerged membrane 7 is prevented because the bubbles of the air supplied from the blower ~~5~~6 elevate along the surface of the submerged membrane 7.

Page 45, please amend the paragraph beginning on line 23 as follows:

Further, according to the embodiment, inclusion of the heating device 14 allows control of the temperature of the matter held in the reaction tank 5 during the decomposition reaction depending on the kind or the like of the dioxins as decomposition objects, for enhancing dioxin decomposition activity of the crushed cells. Thus, the ~~cleaned~~ contaminated matter can be decomposed efficiently.

Page 46, please amend the paragraph beginning on line 26 as follows:

First, the dioxin-like fluorescent substrate having a structure similar to dioxins was synthesized (following structural formula A). The dioxin-like fluorescent substrate A was synthesized by bonding through ether bonds, the benzene ring of ~~monochlorobenzene~~ dichlorobenzene and a benzene ring of 6,7-dihydroxy-4-methylchromen-2-one (following structural formula C, hereinafter, the compound will be referred to as "esculetin-like compound "). The dioxin-like fluorescent substrate A has a structure containing two ether bonds bonding two benzene rings, which is a characteristic structure of dioxins.

Page 47, please amend the paragraph beginning on line 10 as follows:

The dioxin-like fluorescent substrate A forms a fluorescent substance B represented by the ~~following~~ structural formula (B) if one of the two ether bonds

Appl. No.: 10/804,746
Filed: March 19, 2004
Amdt. dated 11/03/2004

bonding ~~monochlorobenzene~~ dichlorobenzene and esculetin C breaks, and forms an esculetin-like compound C if both of the two ether bonds break. Irradiation of those substances A to C with light having a wavelength of 360 nm results in substantially no fluorescence emission with the dioxin-like fluorescent substrate A, but results in excitation of the fluorescent substance B and the esculetin-like compound C and strong fluorescence emission at a wavelength of 450 nm.